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CLAIMS

1. Process of organization of a relational  
20 data base to be used on a computer architecture  
constituted of at least a processor and some memory,  
characterized in that it includes the steps consisting  
in :

Elaborate a table of hierarchical  
25 expansion ;

Create a thesaurus on each of the columns ;  
For each of the words of each of the  
thesauruses, create the radix tree of the set of lines  
indexes the aforementioned word appears at ;

30 For each of the primary keys, store the  
sequence of its values and store a permutation on this  
set of values in order to be able to find back a given  
value ;

2. Process of organization of a data base  
35 according to claim 1 characterized in that it includes  
furthermore a step of splitting of the tables of the

data base in a set of sub-tables, each of them containing a given number of lines, the last one excepted.

5           3. Process of organization of a data base according to claims 1 or 2, characterized in that the data base is requested using the SQL (Structured Query Language).

10          4. A system of data base organized according to claims 1, 2 or 3.

15          5. Process of request management of a data base organized according to claims 1, 2 or 3, characterized in that it includes

• A first step of computation of an expansion table ;

15          • Solve the « where » clause by examining the columns of the aforementioned expansion table ;

• Examine the un-reversed images of the columns to solve the clause « select ».

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